

Ahmed Senouci Bio

Dr. Senouci has over 30 years of professional experience in the area of civil engineering and construction management. He has successfully obtained over \$3.9 million of funded research and documented his findings in over 130 peer-reviewed publications. The high quality of his research has been confirmed by 3,550 citations, to date. In 2009, Dr. Senouci received the Best Journal Paper Award from one of the most prestigious refereed journals in his field: The ASCE Journal of Construction Engineering and Management.

Dr. Senouci has a proven track-record of research excellence in sustainable construction material. Dr. Senouci has developed sustainable asphalt material by replacing a portion of coarse and fine aggregates with recycled rubber tires to reduce the use of natural aggregates and find environmentally friendly solutions to the increase in the stockpile of scrap tires. Moreover, he was involved in a research project that explored the use of nanotechnology-based products, namely, Carbon Nano-Fiber (CNF) and Carbon Nano-Tube (CNT) in cementitious materials to increase their tensile strength, ductility and toughness, and to hinder the formation and propagation of nano-cracks. Dr. Senouci was also involved in a research project dealing with the use of Shape Memory Alloys (SMAs) for the Rehabilitation of Deteriorated Concrete Infrastructure in Qatar. He identified parameters that significantly affect the behavior of SMA active confinement for circular concrete columns and beams. He also developed constitutive models to predict the response of reinforced concrete members actively confined with shape memory alloys and evaluated the effect of uncertainty on the life-cycle costs of the proposed retrofit system.

Dr. Senouci is a dedicated and committed teacher. He developed and taught many undergraduate and graduate level courses including scheduling, estimating, contract administration, statics and strength of materials, structural analysis, concrete design, steel design, and wood design. He developed several MATHCAD programs as teaching tools for design and scheduling courses. He has actively participated in the design and development of several undergraduate and graduate curriculums. Dr. Senouci managed and supervised three ABET and two AACE program accreditations. He has also published several research articles related to education.

Dr. Senouci is a consultant to private and public organizations. He has also conducted several workshops for professionals in the areas of construction management, construction contract administration, and